

NIAD 201.3 DIV (10109394)**IN THE CLAIMS**

Claims 1-66. (Cancelled)

Claim 67. (Currently amended) An isolated antibody which binds specifically to a protein, which is a poly(ADP-ribose) glycohydrolase which catalyzes release of ADP-ribose from an ADP ribose polymer, encoded by a nucleotide sequence that is at least 80% identical to the nucleotide sequence set forth in SEQ ID NO: 1, wherein the protein has a molecular weight greater than 100 kilodaltons as determined by SDS PAGE.

Claim 68. (Previously presented) The isolated antibody of claim 67, wherein said isolated protein has the amino acid sequence set forth in SEQ ID NO: 2, 4, or 6.

Claim 69. (Previously presented) The isolated antibody of claim 67, encoded by a nucleotide sequence set forth in SEQ ID NO: 1, 3, or 5.

Claim 70. (Currently amended) An isolated antibody which binds specifically to a protein, which is a poly(ADP-ribose) glycohydrolase which catalyzes release of ADP-ribose from an ADP-ribose polymer, wherein said protein comprises the amino acid sequence set forth in SEQ ID NO: 11, 12, 13 or 14, and has a molecular weight greater than 100 kilodaltons, as determined by SDS-PAGE.

Claim 71. (Currently amended) The isolated antibody of claim 70, which binds specifically to a protein encoded by a nucleic acid molecule, the complementary sequence of which hybridizes to the nucleotide sequence[[s]] set forth in SEQ ID NO: 1 under the following conditions: prehybridization at 42 ° C in 50% formamide, 0.25 M sodium phosphate

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buffer, pH 7.2, 0.25 M NaCl, 7% SDS, 1 mM EDTA for 10 hours, 100 ug denatured salmon sperm DNA, hybridization at 42 ° C in 50% formamide, 0.25 M sodium phosphate buffer, 100 ug denatured salmon sperm DNA, pH 7.2, 0.25 M NaCl, 7% SDS, 1 mM EDTA.

Claim 72. (Currently amended) An isolated antibody which binds specifically to a protein, which is a poly(ADP-ribose) glycohydrolase which catalyzes release of ADP-ribose from an ADP-ribose polymer, wherein said protein comprises amino acids 677-977 of SEQ ID NO: 4.

Claim 73. (Previously presented) The isolated antibody of claim 67, selected from the group consisting of an antibody and an antibody fragment.

Claim 74. (Previously presented) The isolated antibody of claim 73, wherein said antibody fragment is an Fc fragment, an Fab fragment, an Fab' fragment, and an Fab' (2) fragment.

Claim 75. (Previously presented) The isolated antibody of claim 67, wherein said antibody binds to the C terminus of said protein.

Claim 76. (Previously presented) The isolated antibody of claim 67, wherein said antibody binds to the N terminus of said protein.

Claim 77. (Previously presented) The isolated antibody of claim 70, selected from the group consisting of an antibody and an antibody fragment.

Claim 78. (Previously presented) The isolated antibody of claim 67, wherein said antibody fragment is an Fc fragment, an Fab fragment, an Fab' fragment, and an Fab' (2) fragment.

Claim 79. (Previously presented) The isolated antibody of claim 70, wherein said antibody binds to the C terminus of said protein.

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Claim 80. (Previously presented) The isolated antibody of claim 70, wherein said antibody binds to the N terminus of said protein.